

New Statins Without Side Effects

The definition of a cramp is narrower than that of a muscle spasm: spasms include any involuntary abnormal muscle contractions, while cramps are sustained and painful. True cramps can be distinguished from other cramp-like conditions. Cramps are different from muscle contracture, which is also painful and involuntary, but which is electrically silent. The main distinguishing features of cramps from dystonia are suddenness with acute onset of... 74d14b4b88

Statin Side effects of statins include an increased risk of muscle Statins (or HMG-CoA reductase inhibitors) are a class of medications that lower the concentration of cholesterol in the blood. They are typically prescribed to people who are at high risk of cardiovascular disease. who have cardiovascular disease. Statins reduce the risk of myocardial infarction and stroke 74d14b4b88

The combination was approved for medical use in the United States in February 2020, and in the European Union in March 2020. 74d14b4b88 Atorvastatin was patented in 1986, and approved for medical use in the United States in 1996. It is on the World Health Organization's List of Essential Medicines. It is available as a generic medication. In 2024, it was the most commonly... 74d14b4b88

Discovery and development of statins Statins that belong The discovery of HMG-CoA (3-hydroxy-3-methylglutaryl-CoA) reductase inhibitors, called statins, was a breakthrough in the prevention of hypercholesterolemia and related diseases. The statins inhibit cholesterol synthesis in the body and

that leads to reduction in blood cholesterol levels, which is thought to reduce the risk of atherosclerosis and diseases caused by it. resemble the first statin ever discovered, mevastatin have often been classified as type 1 statins due to their structural relationship. Hypercholesterolemia is considered to be one of the major risk factors for atherosclerosis which often leads to cardiovascular, cerebrovascular and peripheral vascular diseases 74d14b4b88

Colesevelam It is marketed in the US by Daiichi Sankyo under the brand name Welchol and elsewhere by Genzyme as Cholestagel. In Canada, it is marketed by Valeant as Lodalis. sequestrants, which along with niacin and the statins, are the three main types of cholesterol-lowering agents. It was developed by GelTex Pharmaceuticals and later acquired by Genzyme. The statins are considered the first-line agents Colesevelam is a bile acid sequestrant administered orally 74d14b4b88

Simvastatin is made from the fungus *Aspergillus terreus*. It was patented by Merck in 1980, and came into medical use in 1992. Simvastatin is available as a generic medication, and is on the World Health Organization's List of Essential Medicines. In 2023, it was the 22nd most commonly prescribed medication in the United States, with more than 24 million prescriptions. 74d14b4b88

Bempedoic acid/ezetimibe It is a combination of bempedoic acid and ezetimibe. The most common side effects are hyperuricemia (high blood levels of uric acid) and constipation. Bempedoic acid/ezetimibe, sold under the brand name Nexlizet among others, is a fixed-dose combination medication used for the treatment of high cholesterol. It is a combination of bempedoic acid and ezetimibe 74d14b4b88

Low-density lipoprotein (LDL) carriers of cholesterol play a key role in the development of atherosclerosis

and coronary heart disease via the mechanisms described by the lipid hypothesis. As lipid-lowering medications, statins are effective in lowering apolipoprotein B and LDL cholesterol; they are widely used for primary prevention in people at high risk of cardiovascular disease, as well as in secondary prevention for those who have cardiovascular disease. Statins reduce the risk of myocardial infarction and stroke. 74d14b4b88 == Medical uses == 74d14b4b88 They act by inhibiting the enzyme HMG-CoA reductase, which plays a central role in cholesterol production. High cholesterol levels in the blood have been associated with cardiovascular... 74d14b4b88 Fibrates improve atherogenic dyslipidemia characterized by high triglyceride and/or low HDL-C levels and elevated concentrations of small dense LDL particles, with or without high LDL-C levels. Fibrates may be compared to statin drugs, which reduce LDL-cholesterol (LDL-C) and have only limited effects on other lipid parameters. Clinical trials have shown that the combination of statins and fibrates results in a significantly greater reduction in LDL-C and triglyceride levels and greater increases in high-density lipoprotein cholesterol (HDL-C) compared with monotherapy with either drug. Fibrates are used in accessory therapy in many forms of hypercholesterolemia, but the combination of some fibrates (e.g., gemfibrozil) with statins is contraindicated due to an increased risk of rhabdomyolysis. 74d14b4b88 Rosuvastatin was patented in 1991 and approved for medical use in the United States in 2003. It is available as a generic medication. In 2023, it was the twelfth most commonly prescribed medication in the United States, with more than 42 million prescriptions. In Australia, it was the most prescribed medication in 2023. 74d14b4b88 The primary uses of simvastatin are to treat... 74d14b4b88 == Medical uses == 74d14b4b88 Common side effects may include diarrhea, heartburn, nausea, muscle pain (typically mild and dose-dependent) and, less frequently, joint

pain. Muscle symptoms often occur during the first year and are commonly influenced by pre-existing health issues and the nocebo effect. Most patients can continue therapy with dose adjustment or statin switching. Rare (<0.1%) but serious side effects may include rhabdomyolysis (severe muscle disorder), liver problems and diabetes. Use during pregnancy may harm the fetus. Like all statins, atorvastatin works by inhibiting HMG-CoA reductase, an enzyme found in the liver that plays a role in producing cholesterol. 74d14b4b88 It was patented in 1969, and came into medical use in 1975. It is available as a generic medication. In 2023, it was the 83rd most commonly prescribed medication in the United States, with more than 8 million prescriptions. 74d14b4b88 == Medical uses == 74d14b4b88

Fibrate lipophilic statins are less prone to cause this reaction, and are probably safer to be combined with fibrates than the more lipophilic statins are. They are used for a range of metabolic disorders, mainly hypercholesterolemia (high cholesterol), and are therefore hypolipidemic agents. They are derivatives of fibric acid (phenoxyisobutyric acid). Drug In pharmacology, the fibrates are a class of amphipathic carboxylic acids and esters 74d14b4b88

In the United States, bempedoic acid/ezetimibe is indicated as an adjunct to diet and maximally tolerated statin therapy for the treatment of adults with heterozygous familial hypercholesterolemia or established atherosclerotic cardiovascular disease who require additional lowering of LDL-C. 74d14b4b88

Atorvastatin Common side effects may include diarrhea, heartburn Atorvastatin, sold under the brand name Lipitor among others, is a statin medication used to prevent cardiovascular disease in those at high risk and to treat abnormal lipid levels. cardiovascular disease, statins are a first-line

treatment in reducing cholesterol. It is taken by mouth. For the prevention of cardiovascular disease, statins are a first-line treatment in reducing cholesterol. It is taken by mouth 74d14b4b88

The most common side effects are hyperuricemia (high blood levels of uric acid) and constipation. 74d14b4b88 == Clinical use == 74d14b4b88

Simvastatin It is used along with exercise, diet, and weight loss to decrease elevated lipid levels. It is taken by mouth. The FDA recommends that people taking statins should avoid consuming large quantities of grapefruit Simvastatin, sold under the brand name Zocor among others, is a statin, a type of lipid-lowering medication. It is also used to decrease the risk of heart problems in those at high risk. by up to three-fold, increasing the risk of side effects 74d14b4b88

Fibrates stimulate peroxisome proliferator activated receptor (PPAR) alpha, which controls... 74d14b4b88 Common side effects include constipation, headaches, and nausea. Serious side effects may include muscle breakdown, liver problems, and increased blood sugar levels. A lower dose may be needed in people with kidney problems. There is evidence of harm to the developing baby when taken during pregnancy and it should not be used by those who are breastfeeding. It is in the statin class of medications and works by decreasing the manufacture of cholesterol by the liver. 74d14b4b88 In the mid-19th century, a German pathologist named Rudolf Virchow discovered that cholesterol was to be found in the artery walls of people that died from occlusive vascular diseases, like myocardial infarction. The cholesterol was found to be responsible for the thickening of the arterial walls and thus decreasing the radius in the arteries which leads in most cases to hypertension and increased risk of occlusive vascular diseases. 74d14b4b88 Common side effects include

abdominal pain, nausea, headaches, and muscle pains. Serious side effects may include rhabdomyolysis, liver problems, and diabetes. Use during pregnancy may harm the baby. Like all statins, rosuvastatin works by inhibiting HMG-CoA reductase, an enzyme found in the liver that plays a role in producing cholesterol. 74d14b4b88

Bempedoic acid is an adenosine triphosphate-citrate lyase (ACL) inhibitor and ezetimibe is a cholesterol absorption inhibitor. Bempedoic acid works by blocking an enzyme in the liver called adenosine triphosphate citrate lyase, which is involved in making cholesterol. Ezetimibe works by binding to a gut protein called 'Niemann-Pick C1 Like 1', preventing cholesterol from being absorbed into the blood from the gut. 74d14b4b88

Side effects of statins include an increased risk of muscle pain, a slightly increased risk of diabetes, and abnormal blood levels of certain liver enzymes in some people. Additionally, they rarely cause severe adverse effects, particularly muscle damage, and very rarely rhabdomyolysis. 74d14b4b88

== History ==

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== Medical uses == 74d14b4b88

In the 1950s the Framingham heart study led by Dawber revealed the correlation between high blood cholesterol levels and coronary heart diseases. Following up from that study the researchers explored... 74d14b4b88

Fenofibrate... 74d14b4b88

Common side effects include liver problems, breathing problems, abdominal pain, muscle problems, and nausea. Serious side effects may include toxic epidermal necrolysis, rhabdomyolysis, gallstones, and pancreatitis. Use during pregnancy and breastfeeding is not recommended. It works by multiple mechanisms. 74d14b4b88

Colesevelam is one of the bile-acid sequestrants, which along with niacin and the statins, are the three main types of cholesterol-lowering agents. The statins are considered the first-line agents. This is because of the larger body of evidence supporting statins' ability to prevent cardiovascular disease, as well as the

prominent side effects from the other two types, including bloating and constipation (bile-acid sequestrants) and skin flushing (niacin). These side effects often... 74d14b4b88 In the European Union, bempedoic acid/ezetimibe... 74d14b4b88 Colesevelam is indicated as an adjunct to diet and exercise to reduce elevated low-density lipoprotein cholesterol (LDL-C) in patients with primary hyperlipidemia as monotherapy and to improve glycemic control in adults with type 2 diabetes mellitus, including in combination with a statin. The expanded use of colesevelam in adults with type 2 diabetes mellitus is an example of drug repositioning. 74d14b4b88 == Medical uses == 74d14b4b88

Fenofibrate commonly used compared to statins because it treats a different type of cholesterol abnormality than statins. While statins have strong evidence for reducing heart disease and death, there is evidence to suggest that fenofibrate also reduces the risk of heart disease and death. However, this seems only to apply to specific populations of people with elevated triglyceride levels and reduced high-density lipoprotein (HDL) cholesterol. While statins have strong evidence for reducing Fenofibrate, sold under the brand name Tricor among others, is an oral medication of the fibrate class used to treat abnormal blood lipid levels. It is less commonly used compared to statins because it treats a different type of cholesterol abnormality than statins. Its use is recommended together with dietary changes 74d14b4b88

Rosuvastatin A 2014 Cochrane review determined there was good evidence for rosuvastatin lowering non-HDL levels linearly with dose. It is recommended to be used with dietary changes, exercise, and weight loss. Side effects are uncommon: Rosuvastatin, sold under the brand name Crestor among others, is a statin medication, used to prevent cardiovascular disease in those at high risk and treat dyslipidemia or

hyperlipidemia. It is taken orally (by mouth). other statins 74d14b4b88

Skeletal muscle cramp While generally temporary and non-damaging, they can cause significant pain and a paralysis-like immobility of the affected muscle. Raloxifene (Evista) is a medication A cramp is a sudden, involuntary, painful contraction of one or more skeletal muscles, or an overshortening of such associated with electrical activity. In addition to those benign conditions, cramps are also associated with many pathological conditions. Cramps are common and tend to occur at rest, usually at night (nocturnal leg cramps). inhibitors (HMG-CoA inhibitors or statins) Statins may sometimes cause myalgia and cramps among other possible side effects. They are also often associated with pregnancy, physical exercise or overexertion, and age (common in older adults); in such cases, cramps are called idiopathic because there is no underlying pathology. A cramp usually goes away on its own over several seconds or (sometimes) minutes 74d14b4b88

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